

It will be appreciated by those of ordinary skill in the art that the specimen cup of this invention allows collection, testing, transportation and storage of a fluid specimen, such as urine, with chemical strips of characteristics of the specimen without exposing it to the outside atmosphere, or having to come into direct contact with the specimen himself, thereby eliminating the possibility of contaminating him/her-self or surrounding equipment with the fluid specimen contained in the specimen cup, or possibly spilling and losing the entire unique specimen itself.

6. CLAIMS

Having described our invention, what we claim and desire by letter patent is:

1. A specimen cup for testing fluid specimen contained therein, said cup comprising a container used to collect a fluid specimen, a cassette hermetically sealed and custom fit to said container, said cassette further containing chemical strips means to provide an indication of a characteristic of said specimen regarding drug of abuses.
2. A specimen cup as in claim 1 wherein said bottom floor of said cup is sloping from the backside downwardly at 1-3° towards the front side allowing specimen to be channeled towards testing device.
3. A specimen cup as in claim 1 wherein said cup has a retracted flat face designed to move the viewing area closer to said cassette.
4. A specimen cup as in claim 1 wherein said cassette is inserted into said container through custom channels on said container to anchor said cassette's outside edges and orient cassette for proper testing and viewing.
5. A specimen cup as in claim 1 wherein said cassette comprising test strips used to test for THC, COC, MAP, PCP and MOR.

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6. A specimen cup as in claim 1 wherein said cassette comprising a plurality of isolated test channels which house said test strip for testing drugs of abuse.

5 7. A specimen cup as in claim 6 wherein each isolated test channels has a clear, sealed window hermetically sealed to face of cassette for viewing the results of the test.

10 8. A specimen cup as in claim 7 wherein said clear, sealed window is formed by a transparent fluid-resistant sheet laying on top of said test strips to prevent fluid specimen from accidentally spill and contaminate the strips.

15 9. A specimen cup as in claim 1 wherein said cup further comprising a flap to which once fluid specimen entered into said cup, said flap will prevent said fluid specimen from splashing during collection, testing, transport and storage.

20 10. A specimen cup as in claim 1 wherein said cup further comprising a float to which once fluid specimen entered into said cup, said float will prevent said fluid specimen from splashing during collection, testing, transport and storage.

25 11. A specimen cup as in claim 1 wherein said cup is constructed of a material selected from the group comprising thermoplastics, specialty plastics, thermosets, and engineering plastics.

30 12. A specimen cup as in claim 10 wherein said thermoplastics is selected from the group comprising polyamideimide (PAI), polyethersulfone (PES), polyarylsulfone (PAS), polyetherimide (PEI), polyarylate (PAR), polysulfone (PSO), polyamide (PA), polycarbonate (PC), styrene-maleic anhydride (SMA), chlorinated PVC (CPVC), poly(methylmethacrylate) (PMMA), styrene-acrylonitrile (SAN), polystyrene (PS), acrylonitrile-butadiene-styrene (PS), acrylonitrile-butadiene-styrene (ABS), poly(ethyleneterephthalate) (PET),
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poly(vinylchloride) (PVC), polyetherketone (PEK),
polyetheretherketone (PEEK), polytetrafluoroethylene (PTFE),
5 poly(phenylene sulfide) (PPS), liquid crystal polymer (CCP), nylon-
6,6, nylon-6, nylon-6,12, nylon-11, nylon 12, acetal resin, low and high
density polypropylene (PP), high density polyethylene (HDPE), low
density polyethylene (LDPE), polystyrene, ethylene-vinyl acetate, poly-
vinyl-acetate and polyacrylic.

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13. A specimen cup as in claim 10 wherein said specialty plastics is
selected from the group comprising fluorocarbon polymers and
infusible film products, and Upilex polyimide film.

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14. A specimen cup as in claim 10 wherein said thermosets is selected from
the group comprising phenolics, epoxies, urea-formaldehyde and
silicones.

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15. A specimen cup as in claim 10 wherein said engineering plastics is
selected from the group comprising acetyl resins, polyamide, poly-
etherimides, polyesters, liquid crystal polymers, polycarbonate resins,
poly(phenylene ether) alloys, polysulfone resins and polyamideimide
resins.

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16. A specimen cup as in claim 1 wherein said cassette draw said
testing fluid specimen from said cassette's bottom through a pooling
area.

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